Identifying Performance Improvement

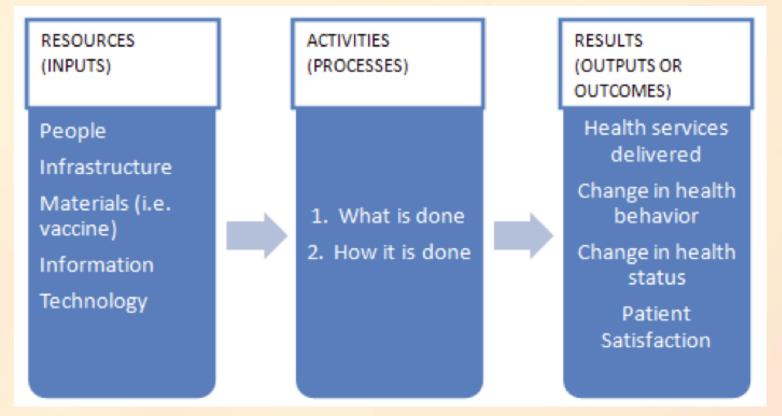
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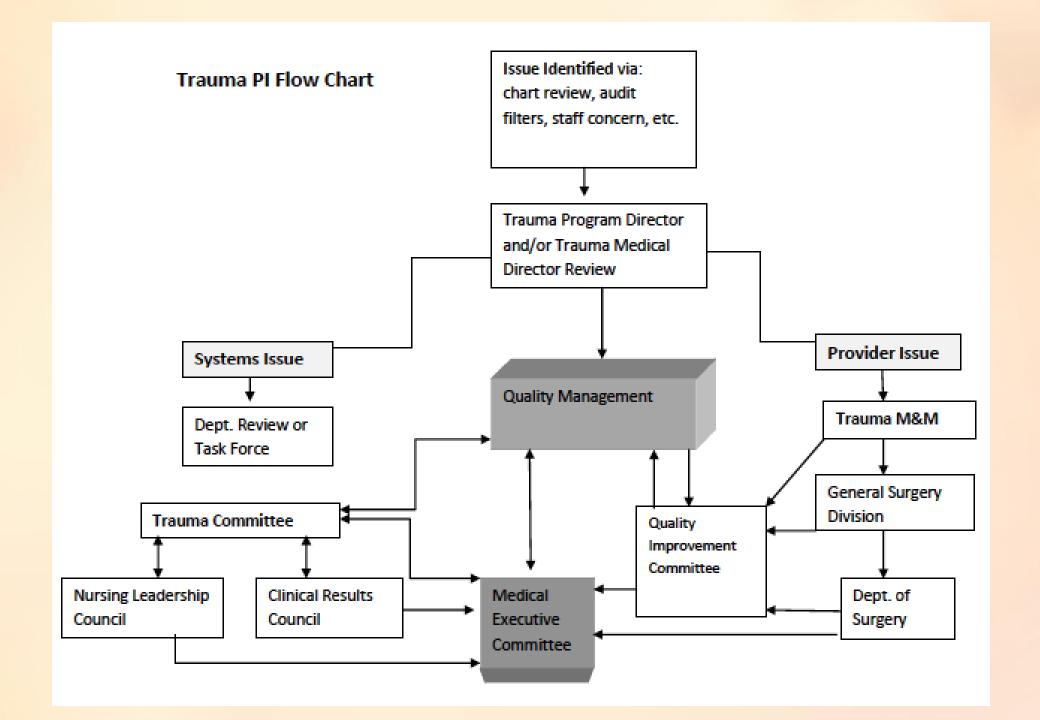
What Is PI?

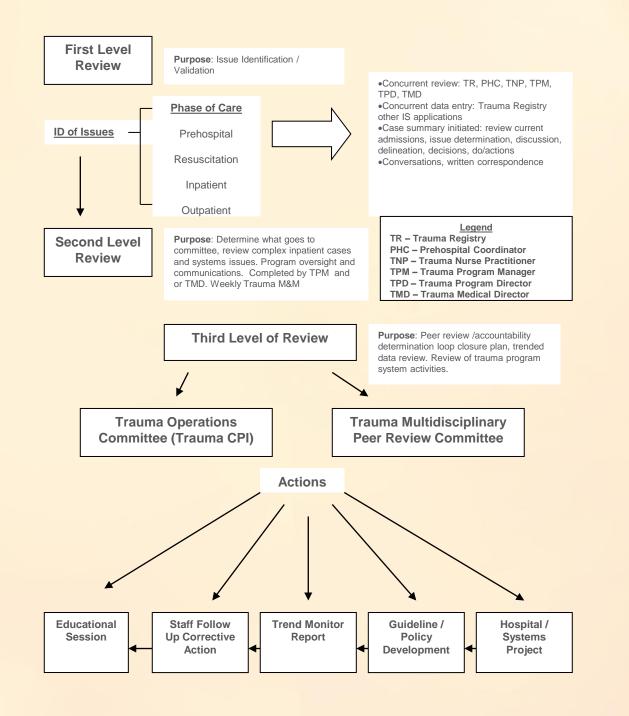
- Performance is defined by an organization's efficiency and outcome of care
- Quality is linked to an organization's service delivery approach or underlying system of care
- Performance improvement changes an organization's current system of care to improve outcomes of care

TIP #1 Develop your process map

- Tool to understand your organization's processes
- Provides a visual diagram of a sequence of events that results in a particular outcome







TIP #2

Must understand own delivery system and key processes

- Ask two questions:
 - What is done (what care is provided)?
 - How is it done (when, where, and by whom care is being delivered)?
- One of these components must be addressed to improve care
- · Ideally both are addressed

TIP #2 Example

- Trauma Activation/Notification
 - What is done (what care is provided)?
 - How is it done (when, where, and by whom care is being delivered)?

What is the Desired Outcome?

- What are the funding agency's expectations?
- What are the regulatory requirements?
- What are the patients' issues and concerns?
- What are the leadership's priorities?

Outcomes Need to Be...

- Relevant
- Measurable
- Accurate
- Feasible

Focused on Patients

- Important measure of quality: extent the patient's needs are met
- Can include:
 - Systems that affect patient access
 - Care that is evidence-based
 - Patient Safety
 - Support of Patient engagement
 - Coordination of Care
 - Patient-centered communication

Focused on Teamwork

- Needed when process or system is complex
- No one knows it all
- Patient care involves more than one discipline
- Creativity is needed
- Staff buy-in is essential

Key Staff for PI Collection

- Day to day leader
- Data entry person (registrar)
 - TIP: Have a back-up person
- Provider champion
- Administrator (operations muscle)
- Data specialist
- Any staff member wanting to improve a process

Focused on Data

- Data:
 - Shows how a system is working
 - Separates what is thought from actual
 - Provides a baseline
 - Reduces ineffective solutions
 - Allows for monitoring of changes
 - Allows comparisons of practice settings
- Quantitative (numbers)-Qualitative (descriptive)
- Use what your organization is gathering
- Develop performance measures (focus on trauma)

Concepts for Identifying PI

- Performance Measure: derived from practice guidelines
 - Monitoring of vital signs
 - Monitoring of I&O
- Performance Measurement: Monitoring important aspects of program
 - Patient transfers
 - Financial data
- Performance Management: Setting goals and checking progress
 - Benchmarking

How Do I Get My Measure?

Example

- 1. Define the measure
- 2. Define measurement population
- 3. Set the denominator
- 4. Set the numerator
- 5. Divide numerator by denominator

- 1. Documentation of hourly vital signs on highest level activation
- 2. Highest level activation patients
- 3. 20
- 4. 10
- 5. 10/20=50%

Collecting PI

- What information needs to be collected for my measure?
 - Trauma registry
- What are my data sources?
 - Patient's chart including autopsy reports
 - Staff (rounding)
 - Conferences
 - Hospital quality department (RM reporting system)
- How should I collect it (methodology)?
 - PI Indicators/Audit Filters
 - Staff interviews
 - Focus groups
 - Chart audits
- How much should I collect?
- What is my timeline?
 - Available resources

Medical Record Review

Healthcare Facility: Surveyor: Chart Category: Survey Date: MR#: Age: Disposition: Admit Transfer Died Treat/Release AMA Mode of Arrival: Sex: OR ICU Floor Morgue Other Location: Mechanism of Injury: Comments: Pre-Hospital Information Scene Time: Transport Time: EMS Run Sheet Present: BP: Resp: RTS: C-Collar CPR Intubation Pulse: GCS: Extrication Spinal Immob: Oxygen IV started ED/Physician Performance Yes No Trauma Team Activated? ED Arrival Time: ED Discharge Time: ED LOS: ED Physician Notified: Trauma Surgeon Notified: Orthopedics Notified: ED Physician Arrived: Trauma Surgeon Arrived: Orthopedics Arrived: Admitted to: Trauma/General Surgeon Orthopedics Neurosurgery Other Surgical Non-Surgical Service If Transferred: Receiving Facility: Time of Transfer: **ED Documentation** Trauma Flow Sheet Used Serial Vital Signs Initial ED Vital Signs BP: Pulse: Resp: Temp: GCS: SaO2: Final ED Vital Signs GCS: SaO2: BP: Pulse: Resp: Temp: Treatment IV: Crystalloid infused: cc | Central Line Placement: Blood T&C: Transfused: Units Chest Tube: NG/OG Tube: Oxygen: Foley: C-spine clearance: Diagnostics Plain Films: CT Scans: Chest Yes No Head Yes No Chest Yes No C-Spine Yes No Facial Bones Yes No Abdomen Yes No Cervical Spine Yes Pelvis Yes No No Pelvic Yes No Other Diagnostic Studies: Extremity films Yes Documented Injuries ISS **Operative Care** Operative Care Timely: Operative Care Appropriate: Unanticipated Return to OR: Operative Care Concerns: QI Process Reviewed by Trauma Coordinator: Reviewed by Trauma Director: M/M Review: QI Issues Identified by Trauma Program Loop Closed? QI Issues NOT Identified by Trauma Program Meets the Standard Recommendation by Reviewer: of Care?

Common Areas To Find PI

- Prehospital
- Resuscitation
- Radiology
- Blood
- OR
- PACU
- ICU
- Step Down Unit
- Coordination of Care between services

PI Indicator Examples

- Appropriateness of Triage
- Appropriateness and legibility of documentation
- Lab TAT
- Radiology TAT
- Readmission to ICU
- Length of Stay
- Variations from Practice Management Guidelines (PMG)
- Delays in care:
 - Assessment
 - Diagnosis
 - Treatment
 - Consultation

Audit Filter Examples

- Laparotomy performed greater than 2 hours of arrival in hypotensive patient
- Craniotomy greater than 4 hours after arrival
- Non-surgical admission
- Absence of hourly vital signs
- Availability of prehospital run sheet
- Death
- Transfer
- Reintubation 48 hours after extubation
- Scene time greater than 20 minutes
- ED Dwell time greater than 2 hours prior to transfer

Concurrent Identification

Advantages

- Impacts patient at point of service
- Increased staff satisfaction
- Less reliant on medical record
- Accuracy improved

Disadvantages

- Requires intense resources
- Management of Data
- Access to medical record (paper charts)
- Real time documentation needed

Retrospective Identification

Advantages

- Completed all at one time
- Easier for limited resources
- Streamlined data entry

Disadvantages

- Reliant on Medical Records Dept
- Not timely
- Less effective feedback
- Data backlogging
- Lost data if not documented

Applying Your New Knowledge Group Forum